

Komissarov, A.P.

réseaux et la différence des fonctions  $\varphi$  correspondantes sont deux fonctions harmoniques conjuguées;  $\nu$  est l'angle de la direction du réseau isotherme avec celle du réseau orthogonal contenant la couche  $\varphi=\text{const}$ ; le réseau  $(\nabla\varphi, \tilde{\nabla}\varphi)$  est isotherme si et seulement si  $\nu$  est harmonique.

La condition nécessaire et suffisante pour que les courbes  $\varphi=\text{const}$  soient géodésiquement parallèles et à courbure géodésique constante est (\*\*\*)  $\Delta_1\varphi=1/\varphi$ ,  $\Delta_2\varphi=F(\varphi)$ . La fonction  $\varphi$  pour laquelle (\*\*), (\*\*) valent existe précisément pour les surfaces qui sont en déformation avec les surfaces de rotation. Enfin on trouve les solutions de (\*) fonctionnellement dépendantes de  $K$ .

A. Svec (Prague)

3  
1

KOMISSARUK, A.M.

Investigating the field of the net angle of geodetic nets.  
Izv. vys. ucheb. zav.; mat. no.2:54-62 '61. (MIRA 14:3)

1. Minskiy pedagogicheskiy institut imeni A. M. Gor'kogo.  
(Geodesy)

KOMISSARUK, D.Z., doktor meditsinskikh nauk.

Debatable points in the etiology and pathogenesis of Kashin-  
Beck's disease. Klin. med., 35 no.2:86-92 F '57 (MLRA 10:4)  
(BONE DISEASES, etiol. and pathogen.  
Kashin-Beck's dis.)

ACCESSION NR: AP4039709

S/0051/64/016/006/1054/1060

AUTHOR: Komissaruk, V. A.

TITLE: Investigation of wave front aberrations of optical systems using three-beam interference

SOURCE: Optika i spektroskopiya, v. 16, no. 6, 1964, 1054, 1060

TOPIC TAGS: interferometer, wave front, light interference, interference fringe width, multibeam interferometer

ABSTRACT: It is shown that very simple interference fringes can be obtained in an interferometer capable of superimposing in a definite manner three zones of the investigated wave front in the interference field. In particular, if three identical wave fronts are superimposed after undergoing transverse displacements relative to one another, then it is possible to separate in the resultant field lines whose degree is lower by two than the degree of the polynomial of the

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ACCESSION NR: AP4039709

wave function. The formula for the three-beam field is derived for the case of third-order aberration and it is shown that the lines in this case are ellipses with axes oriented perpendicular and parallel to the displacement. Practical examples are presented and some of the methodological questions involved are discussed. The optimum displacement is determined for the case of third-order spherical aberration and for third-order coma with a symmetry axis perpendicular to the displacement. The Ronchi method is used to obtain three-beam interferences. Considerations governing the choice of a suitable diffraction grating are also advanced. "The author is grateful to I. I. Frolov for help with the work, and also to Ye. G. Yakhontov, whose advice he used during the preparation of the manuscript." Orig. art. has: 5 figures and 3 formulas.

ASSOCIATION: None

SUBMITTED: 08Aug63

DATE ACQ: 24Jun64

ENCL: 00

SUB-CODE: OP

NR REF Sov: 002

OTHER: 005

Card:

2/2

OCHKUR, A.P.; PSHENICHNYY, G.A.; KOMISSARZHEVSKAYA, G.F.; ORLOV, V.N.

Experience in using the method of gamma-ray reflection for  
the quantitative determination of iron in the underground  
boreholes of the Ordzhonikidze mine, Krivoy Rog Basin.  
Vop. rud. geofiz. no.5:109-112 '65. (MIRA 18:9)

LYSKOV, S.P.; KOMISARIAT SSSR

Results of the conference on diamond machining of workers in  
automobile, tractor, agricultural machinery and bearing plants.  
Avt.prom. 31 no.5547 Ns 165. (MIRA 18:5)

1. Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy  
promyshlennosti.

BARANOVSKIY, Yu.V., inzhener; KOMISSARZHEVSKAYA, V.N., inzhener.

[Surface finish of automobile tractor parts] Chistota poverkhnosti  
detalei v avtotraktorostroenii. Moskva, Gos.nauchno-tekhn.izd-vo  
mashinostroit.i sudostroit. lit-ry, 1953. 121 p. (MLRA 7:2)

1. Moscow. Gosudarstvennyy vsesoyuznyy institut avtomobil'noy  
tekhnologii. (Surfaces (Technology))

KOMISSARZHEVSKAYA, V. N.

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957,  
Nr 1, p.194 (USSR) 112-1-1256

AUTHORS: Gipp, B.A., Komissarzhevskaya, V.N., and May, L.A.

TITLE: Device for the Registration of Macro-geometric Deviations  
(Pribor dlya zapisi makrogeometricheskikh otkloneniy)

PERIODICAL: Tekhnol. avtomobilestroyeniya, 1956, Nr 1, pp.49-52.

ABSTRACT: A device developed by the Scientific Research Institute of Automobile Production Technique (NITavtoprom) which permits measuring and registering errors in macro-geometry of cylindrical component parts is described. A lever induction transmitter and a registering magneto-electric device are used in the instrument. The electric connection diagram adopted gives an amplification from 500 to 5000 times. A basic and electric diagrams of the instrument are presented, as well as several contour graphs. The description is preceded by a short outline of methods of measuring the macro-geometry of component parts.

I.M.L.

Card 1/1

VINNIK, L.M.; GRINBERG, R.Ya.; KAMINSKIY, Ya.A.; KLEPIKOV, V.D.; KUZNETSOV, A.M.; KUCHENEV, N.I.; STRUZHESTRAKH, Ye.I.; TISHIN, S.D.; KHARITONOV, A.B.; TSEYTS, I.E.; SHAPIRO, I.I.; SHAFIRO, M.Ya.; ANAN'YAN, V.A., retsenzent; VASIL'YEV, D.T., retsenzent; GORETSKAYA, Z.D., retsenzent; KARTSEV, S.P., retsenzent; KEDROV, S.M., retsenzent; KOMISSARZHEVSKAYA, V.N., retsenzent; KOPERBAKH, B.L., retsenzent; KORBOW, M.M., retsenzent; LEONOV, N.I., retsenzent; IUR'YE, G.B., retsenzent; NOVIKOV, V.F., retsenzent; GAL'TSOV, A.D., red.; VOL'SKIY, V.S., red.; KHISIN, R.I., red.; SEMENOVA, M.M., red. izd-va; MODEL', B.I., tekhn.red.

[Reference book for establishing norms in the manufacture of machinery; in 4 volumes] Spravochnik normirovshchika-mashinostroitelia; v 4 tomakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol.2. [Establishing technical norms for operating machine tools] Tekhnicheskoe normirovanie stanochnykh rabot. Pod red. E.I.Struzhestrakha. 1961. 392 p.

(Industrial management) (Machine tools)

(MIRA 14:8)

GERGELY, A.; KOMISZAR, V.; RUSZNAK, I.: KRALIK, I.

Oscillopolarographic examination of some macromolecular substances used in the textile chemistry. Chem zvesti 18 no.5/6:391-398 '64.

1. Research Institute of Textile Industry, Budapest.

COUNTRY	: Bulgaria
CATEGORY	: Cultivated Plants. Fruits. Berries. Nuts. Tea.
ABG. JOUR.	: RZhBiol., No. 4, 1959, No. 15779
AUTHOR	: Koritev, Renel
INST.	: "
TITLE	: Inter-row Crops in Fruit Orchards.
ORIG. PUB.	: Ovozcharstvo i Prudinarstvo, 1957, No.3, 12-15
ABSTRACT	<p>In the Yelenskiy, Dryanovskiy, Gabrovskiy and Sevliyevskiy areas of Bulgaria, fruit growing practice showed that the cultivation of grain, sunflower and grass crops in the inter-rows is the main cause of the irregular fruit bearing and poor crops. Inter-cropping has an especially deleterious effect in drought years. With the exception of those cases in which the orchard is on steep slopes and soil must be protected from erosion, the inter-rows should not be left turfed. It is</p>
Card:	1/2
Card:	2/2

KOMITOVSKI, D.

On embryonic tumors of the nervous system with a report of a rare case of embryonic malignant neurinoma of the median nerve. Khirurgia, Sofie 14 no.5/6:525-529 '61.

1. Vissz meditsinski institut, Sofia, Klinika po ortopediia i travmatologija. Direktor: Prof. B. Boichev.

(MEDIAN NERVE neopl)  
(SCHWANNOMA case reports)

BOICHEV, B., prof.; RAICHEV, R., dots.; KOMITOVSKI, D.

On the problem of atypical forms of Ewing's sarcoma. Khirurgiia,  
Sofia 14 no.7:573-582 '61.

1. Vissh meditsinski institut, Sofiia Klinika po ortopediia i  
travmatologija. Direktor: prof. B. Boichev.

(SARCOMA EWING'S case reports)

RAICHEV, R., dots.; VASILEV, N.; KOMITOVSKI, D.

On the problem of benign osteoblastomas. Khirurgiia (Sofia) 14 no.10:  
883-887 '61.

1. Vissh meditsinski institut, Sofiia, klinika po ortopediia i  
travmatologija. Direktor: prof. B. Boichev. Institut za spetsializatsiia  
i usuvurshenstvuvane na lekarite, Sofiia katedra po nevrokhirurgiia  
Zav. katedrata: prof. F. Filinov.

(SARCOMA OSTEOGENIC)

ANDREEV, Iv.; KOMITOVSKI, D.

On benign synoviomas. Khirurgia (Sofiia) 16 no.11:999-1005 '63.

1. Bulgarska akademia na naukite, grupa po ortopenii i travmatologija, Sofiia. Rukovoditel: prof. B.Boichev; chl.korespondent na BAN.

KOMIVES, I.

KOMIVES, I. Discussion of economists in the Petofi Circle of the Communist Youth League. p. 7.

Vol. 10, no. 6, June 1956

TOBBETERMELES

Budapest, Hungary

So: East European Accession, Vol. 6, No. 5, May 1957

KOMIVES, Imre, dr.

The existance of the caste system is ceasing. Elet tud 16 no.50:1588..  
1590 10 D '61.

CHUKHROVA, N.; KOMIZERKO, K.

Meteorites in the collection of the Museum of Geology and  
Mineralogy of the Timiriazev Academy of Agriculture in Moscow.  
Meteoritika no.12:106-111 '55. (MIRA 8:10)  
(Moscow--Meteorites)

KOMIZERKO, Ye. I.; RENYJMAN, V.G.

Summer planting of potatoes in the Maritime Territory. Soob. DVFAK  
SSSR no.7:48-56 '55. (MLRA 10:4)

1. Dal'nevostochnyy filial im. V. L. Komarova AN SSSR.  
(Maritime Territory--Potatoes)

KOMIZERKO, Ye.I.

Chemical composition of Onobrychis sibirica Turcz. and  
multicolored vetch (*Vicia picta* Fisch. et Mey.). Biul.  
Glav. bot. sada no.53:77-80 '64. (MIRA 17:6)

1. Glavnnyy botanicheskiy sad Akademii nauk SSSR.

KOMIZERKO, Ye.I.

Biogeochemical characteristics of some *Eremurus* species. *Fiziol. rast.* 7 no.4:478-484 '60.  
(MIRA 13:9)

1. Central Botanical Garden of U.S.S.R. Academy of Sciences, Moscow.  
(*Eremurus*)

KOMIZERKO, Ye. I.

Some indices of vital processes in the species of the genus  
Eremurus. Biul. Glav. bot. sada no.47:32-38 '62.  
(MIRA 16:1)

1. Glavnnyy botanicheskiy sad AN SSSR.

(Desert candle) (Plant physiology)

KOMI ZERKO, Ye.I.

Determining the alkaloid content in the representatives of the genus  
Galanthus. Biul. Glav. bot. sada no.51:102-106 '63. (MIRA 17:2)

1. Glavnnyy botanicheskiy sad AN SSSR.

KOMJAT, I.

Angyal, Gy.; Komjat, I. "Problems of the Supply of Vitamin C in Group Alimentation  
I. The Effect of Large-Scale Cooking Techniques on the Vitamin C Content of Vegetables.  
II. The Effect of Natural Preservative Materials on the Lessening of Vitamin C  
Loss Caused by the Cooking of Various Vegetables" p. 313 (Etelmezesi Ipar,  
Vol. 7, No. 10, October, 1953, Budapest)

SO: East European Monthly List of Russian Accessions, Library of Congress, Vol. 3, No. 3  
1954, March 1988, Uncl.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824120005-9

KOMJATHY, Miklos, dr.

The Battle of Mohacs. Elet tud 16 no.37:1155-1159 10 S '61.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824120005-9"

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CIA-RDP86-00513R000824120005-9"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824120005-9

KOMJATHY, Laszlo

Longe-range development plans of the Csepel Tube Factory.  
Koh lap 97 no. 5218-222 My'64.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824120005-9"

KOMJATI, Imre

Aspects of the development of vineyard winches. Jarmu mezo  
gep 7 no.7:276-279 '60.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824120005-9

KOMJATI, Imre

Material handling in cement industries. Magy ep ipar 12 no.10:  
465-472 '63.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824120005-9"

KOMJATI, Zoltan, Dr.; TOTH, Ernő

"Industrial statistics," by Otto Likacs and Lajos Olle.  
Reviewed by Dr. Zoltan Komjati and E.Toth. Stat szemle  
40 no.3:321-325 Mr '62.

KOMJATI, Zoltan, dr., adjunktus

Power supply analysis in the industry. Stat szemle 41 no.1:39.  
58 Ja '65.

I. Karl Marx University of Economics, Budapest.

KOMJATHY, A.

V. Komjáthy, Aladár. A new, simple derivation of the Lorentz transformations. Magyar Tud. Akad. Mat. Fiz. Oszt. Közl. 7 (1957), 179-182. (Hungarian)

The paper claims to give a new and simple derivation of the Lorentz transformations and claims to "explain" why  $(1-\beta^2)$  appears on the  $\frac{1}{2}$  power. In the usual derivations [e.g., M. Abraham and R. Becker, Theorie der Elektrizität, Leipzig 1933, Vol. II, pp. 269-272] there is no ambiguity concerning the exponent of  $(1-\beta^2)$ . Furthermore, the novelty of the present derivation consists mainly in a slight rearrangement of the observers, measuring rods, and light sources in the various coordinate systems. Thus, the value of the paper is, if anything, didactic.

M. J. Moravcsik (Livermore, Calif.)

2  
1-MJC

Komjathy, O. ; Schaffer, Gy.

Verticality of construction enterprises. p. 19.

EPITESUGYI SZEMLE. Budapest, Hungary, No. 1, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

CA

KOMJATHY, S.

Analytical Chemistry  
7

A volumetric semimicromethod for the determination of magnesium in cast iron. J. Mika and S. Komjathy (Sopron, Hung.). *Acta Tech. Acad. Sci. Hung.* 2, No. 1, 115-22 (1951).—Mg 0.05-0.2% in cast iron can be detd. by removing Fe and Mn by electrolysis with an Hg cathode, removing remaining Fe by pptn. with NH<sub>4</sub>OH, and evapg. The Mg then is found by pptn. with oxine and the Mg oxinate is bromometrically back titrated. A. M. P.

S/070/62/007/004/005/016  
E132/E435

AUTHORS: Palathik, L.S., Komnik, Yu.F., Komkin, V.M.

TITLE: The crystal chemistry of compounds with tetrahedrally coordinated atoms

PERIODICAL: Kristallografiya, v.7, no.4, 1962, 563-567

TEXT: The reasons for deviations of lattice periods of covalent crystals from the values calculated from the tetrahedral radii of L. Pauling and M. C. Huggins are analysed. It is shown that for resolving this difficulty it is necessary to include the fact of the partially ionic character of the bonds. Tables of new "truly" covalent tetrahedral radii for the elements have been compiled. Formulae are then given for calculating the lattice periods of many-component compounds from these purely covalent radii taking account of the ionic components. Usually the interatomic distance is calculated from

$$d_{AB} = r_A + r_B - 0.09(x_A - x_B)$$

where  $x$  is the electronegativity and  $r$  is the normal covalent radius (given by Pauling and Huggins). A table of the purely

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KOMJATTI, I.

Current problems with the production of vegetable seeds; also, remarks by N.  
Borka and others. p. 363.  
(KOZLEMENYEI. Vol. 12, no. 1/4, 1957, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.  
Uncl.

KOMKIN,A.I.

Lets justify the high title of brigade of communist labor.  
Avt.dor. 24 no.2:3-4 P'61

(MIRA 14:3)

1. Rukovoditel' brigady kommunisticheskogo truda TsBZ Moskovskogo  
upravleniye stroitel'stva...  
( Concrete slabs)

KOMKOV, A., zasluzhenny master sporta SSSR (Yakhroma, Moskovskoy obl.)

Workers' sports club "Yakhroma." Sov. profsoiuzy 19 no.15:  
44-45 Ag '63. (MIRA 16:8)  
(Yakhroma--Physical education and training)

FRANK-KAMENETSKIY, V.A.; KONDRAT'YEVA, V.V.; KOMKOV, A.I.

Sapphirine. Rest,min.syr. no.1:128-145 '62.

(MIRA 16:3)

1. Leningradskiy gosudarstvennyy universitet.  
(Sapphirine)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824120005-9

KOMKOV, A.I.

X-ray analysis of aeschynite. Trudy VSEGEI 96:213-225 '63.  
(MIRA 17:9)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824120005-9"

S/183/60/000/02/04/025  
B004/B005

AUTHOR: Komkov, A. I., Director

TITLE: Report

PERIODICAL: Khimicheskiye volokna, 1960, No. 2, pp. 9 - 13

TEXT: This report was delivered at the Branch Conference of the Synthetic Fiber Industry in Klin, December 16-18, 1959. The lecturer enumerates the technical improvements realized. Production of first-quality rayon amounts to 60.5%, of staple fiber to 92.3%. The breaking length of staple fiber was increased to 20 km. The experimental plant of the kombinat, together with the cord fiber laboratory of the branch of VNIIIV (All-Union Scientific Research Institute of Synthetic Fibers), worked out a method of production of cord fiber with a breaking length of 30 - 32 km. A scientific research laboratory with 26 engineers and technicians was established at the central laboratory of the kombinat. The staff of the design office was extended to 41. Surface-active substances and modifiers are missing. The Goskomitet Soveta Ministrov SSSR po khimii (State Committee on Chemistry of the Council of Ministers USSR) should organize such a production. There is a shortage of cables, electrical material, and plastics for automation. Raw materials.

Card 1/3

Report

S/183/60/000/02/04/025  
B004/B005

are of inferior quality. The Svetogorskiy bumkombinat (Svetogorsk Paper Kombinat), Arkhangel'skiy bumkombinat (Arkhangel'sk Paper Kombinat), and Priozerskiy bumkombinat (Priozersk Paper Kombinat) deliver cellulose of poor activity and with a high iron- and ash content. 11% of the cellulose delivered in 1959 was below standard. A commission of the kombinat inspected the Svetogorskiy tsellyuloznyy kombinat (Svetogorsk Cellulose Kombinat), and ascertained serious violations of the most primitive technical regulations. 20% of the caustic soda delivered in 1959 were below standard and had an iron content of up to 5%. The Glavkhimsbyt should care for better quality. The oil of vitriol delivered by the Voskresenskiy khimkombinat (Voskresensk Chemical Kombinat), Kirovogradskiy khimkombinat (Kirovograd Chemical Kombinat), and Konstantinovskiy khimkombinat (Konstantinovka Chemical Kombinat) corresponds to the standard but its quality is not sufficient for the production of strong cord. The Razdol'skiy zavod (Razdol'noye Works) delivers sulfur with a high content of bitumen. Water-soluble sulfur dyes are only delivered in black, blue, and brown, and contain up to 9% of sodium sulfite and -hyposulfite. The equipment of the factory is antiquated. The counter fallors consist of bad porcelain which tears the fibers. The Yegor'yevskiy kombinat (Yegor'yevsk Kombinat) refused 90 tons of fiber for this reason. The VNIIITekmash (All-Union Scientific Research Institute of Textile Machines) designed the drying

Card 2/3

Report

S/183/60/000/02/04/025  
B004/B005

plant of the type SL-280-I for staple fiber built by the zavod im. K. Marksia (Works imeni K. Marx) which, however, works badly. A turboagitator delivered by the zavod "Bol'shevik" ("Bol'shevik" Works) could not be taken into operation for a long time. The GOST standards for spinning pumps will have to be improved. Work done by the VNIIIV is unsatisfactory. Nothing new has been designed for the last 10 years since the introduction of the spinning frame of the type PN-300-I and the VA apparatus (xanthogenizer). The kombinat cannot be extended because of the present sanitary condition of air over the town and the soiling of waste water. This state should be relieved by 1963.

ASSOCIATION: Kalininskiy kombinat (Kalinin Kombinat)

Card 3/3

KOMKOV, A. I.

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
Mineralogical and  
Geological Chemistry

X-ray data of florencite and kolyvinit. V. A. Prank,  
Kamenetskiy, A. I. Komkov, and V. V. Narylov (A. A. Pidapov State Univ., Leningrad). *Zapiski Vsesoyuz.*  
*Mineralog. Obshchestva* (Mem. zoc. russe mineral.) 82,  
207-301 (1953); cf. A. A. Kukharevko; *Ibid.* 80, 238  
(1951); V. N. Labuntsov, *Trudy Mineralog. Muzeya,*  
*Akad. Nauk S.S.R.* 1950, No. 2, 135-6.—The identity  
of florencite with "kolyvinit" is shown by extensive optical,  
goniometric, and x-ray measurements. The florencite  
described by Prior and Husek (*Mineralsc. Mag.* 12, 244  
(1900)) is somewhat different, with lower  $n_{25}$  and d., and  
the same is true for stiepelmannite (cf. Ramdohr and Thilo,  
*C.A.* 34, 2292). The minerals form an isomorphous series  
of rhombohedral symmetry. The unit cells of florencite  
and kolyvinit:  $a_0 = 6.900 \pm 0.005$  Å;  $c_0 = 16.34 \pm 0.04$   
Å;  $c_0/a_0 = 2.35$ ; d. 3.67-3.70. For stiepelmannite:  
 $a_0 = 6.75$  Å.;  $c_0 = 16.52$  Å.;  $c_0/a_0 = 2.40$ ; d. 3.605.

W. Eitel

KOMKOV, A.I.

FRANK-KAMERETSKIY, V.A., starshiy nauchnyy sotrudnik; NARDOV, V.V., assistant;  
KOMKOV, A.I., student.

Position of koivinite among minerals of the florencite group. Mauch.  
biul. Len. un. no.32:19-24 '54. (MLBA 10:4)

1. Kafedra kristallografi. (Koivinite)

KOMKOV, A.I.

Category : USSR/Solid State Physics - Structural Crystallography

E-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3744

Author : Frank-Kanenetskiy, V.A., Komkov, A.I., Nardov, V.V.

Title : Corrections to Article "X-Ray Diffraction Data on Florencite and Kouvenire"

Orig Pub : Zap. Vses. mineraloy. o-va, 1954, 83, No 4, 432

Abstract : Concerns Ref. Zh. Fiz., 1956, 13351

Card : 1/1

FRANK-KAMENETSKIY, V.A.; KOMKOV, A.I.

Rotation chamber headpiece designed for X-ray goniometric investigation of crystals. Zav.lab. 21 no.6:738-739 '55.  
(MIRA 8:9)

1. Leningradskiy universitet im. A.A.Zhdanova.  
(X rays--Apparatus and supplies) (Crystallography)

A. I. Komkov

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3  
8

Ferroselite, a new mineral. E. Z. Bur'yanova and A. I. Komkov. Doklady Akad. Nauk S.S.R. 105, 812-13 (1955).

Ferroselite (I) is identical with synthetic FeSe<sub>1-x</sub>. The orthorhombic unit cell has  $a = 4.78 \pm 0.02$ ;  $b = 5.73 \pm 0.02$ ;  $c = 3.57 \pm 0.01$  Å; space group  $Pcmn$ , or  $Pan2$ . Synthetic FeSe has a slightly larger cell. It occurs in Middle Devonian sediments of the Tuva Autonomous Region; it forms very simple prismatic crystals with {110} and {011}, striated parallel to  $c$ , sometimes in intergrowth twins, similar to marcasite or loellingite. The steel-gray, or tin-white crystals of about 0.1 mm. length are observed in the calcareous cement of polymict sandstones; highly brittle, hardness 6-6.2, luster metallic; cleavage perfect parallel to  $c$ . Color in reflected light is rose-cream, reflection power is high, birefringence weak, but strongly anisotropic with greenish and blue color tints between crossed nicols. Pos. microchemical reactions were obtained for Fe and Se, neg. for S and Te. It is locally associated in the sandstone with pyrite and chalcopyrite; locally it is changed by a reaction rim of an anisotropic red-brown colored mineral of very high  $n$ , and with a typical diamond luster. The mineral can easily be confused with microcryst. marcasite, etc. W. E.

W.E.  
post

All-Union Sci Res Inst. Geology

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material but identical in its present configuration. Although the

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CIA-RDP86-00513R000824120005-9

KOMKOV, A.I.; NEFEDOV, Ye.I.

New data on langite. Biul.VSEGEI no.1:157-161 '58. (MIRA 14:5)  
(Langite)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824120005-9"

SOV/70-3-4-24/26

AUTHORS: Komkov, A. I. and Frank-Kamenetskiy, V. A.

TITLE: On the X-ray Goniometric Determination of the Orientation  
of Crystals (O rentgenometricheskem opredelenii  
orientirovki kristalla)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 4, pp 511-518 (USSR)

ABSTRACT: The method of projecting the planes and zone-axes of an arbitrarily oriented crystal from the data of one Laue photograph by the development of zones is discussed. Ways of determining the symmetry and the orientation of the crystal from the resulting projection are expounded. The method of the present authors, as first set out (Uch. Zap. LGU, Ser. Geol. Nauk, 1954, Vol 4, Nr 178, pp 255-62), has been seriously criticised but this is now asserted to be due to a misunderstanding and the method is explained afresh. It consists of representing the reflecting planes operative in a Laue photograph, recorded on a flat plate, in a stereogram, the construction of zones (great circles) through the points, and the recognition of symmetry from the characteristic angles ( $60^\circ$ ,  $45^\circ$ ,  $90^\circ$ ) between the zones. The crystal can be

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On the X-ray Goniometric Determination of the Orientation of Crystals

re-set, if necessary, from one such photograph. The suggestion that a Laue photograph recorded on a cylindrical film which would contain many more reflections would be an improvement on the suggested method is rejected. There are 4 figures and 5 Soviet references.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet  
imeni A.A. Zhdanova (Leningrad State University  
imeni A.A. Zhdanov)

SUBMITTED: July 27, 1957

Card 2/2

KOMKOV, A.I.; FRANK-KAMENETSKIY, V.A.

Determining xenomorphic crystal orientation by a Laue photograph  
[with summary in English]. Vest.LGU 13 no.12:25-38 '58.

(MIHA 11:12)

(X-ray crystallography)

KOMKOV, A. I., Candidate Geolog-Mineralog Sci (diss) -- "X-ray structural investigation of the rare-earth tantalum-columbium compounds of the type (U, TR) (Cb, Ta)O<sub>4</sub>". Leningrad, 1959. 15 pp (All-Union Sci Res Geol Inst VSEGEI), 100 copies (KL, No 22, 1959, 110)

24.100

77105  
SOV/70-4-6-6/31

AUTHOR: Komkov, A. I.

TITLE: Structure of Natural Fergusonite and of Its Polymorphous Modification

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 6, pp 836-841 (USSR)

ABSTRACT: Both the natural fergusonite from the Central Urals and its artificial monoclinic modification have compositions  $(Y, Yb)NbO_4$  and a ratio  $Y:Yb = 0.85:0.15$ . They were studied using X-ray goniometer KFOR, camera KRON-1, and Mo-radiation. The natural fergusonite proved to be centrosymmetric tetragonal. Its diffraction symmetry is  $C_{4h} = 4/m$ , space group  $I\bar{4}_1/a$ , identity period  $a = 5.16 \text{ \AA}$ ,  $c = 10.89\text{ \AA}$ . Y and Yb-atoms occupy identical positions at the body centers of polyhedra whose vertices are occupied by 8 O-atoms, 4 of which are at  $2.30 \text{ \AA}$  and the other 4 at  $2.34 \text{ \AA}$  distance from Y or Yb. However, the author does not exclude that  $0.04 \text{ \AA}$  difference is the result of experimental errors. Nb-atoms occupy body

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Structure of Natural Fergusonite and of  
Its Polymorphous Modification

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centers of slightly flattened tetrahedra which have O-atoms at the vertices. O-Nb-O bond angles in the flattened tetrahedra are 117 and 107°, Nb-to-O distance is 1.89 Å.  $\text{NbO}_4$  tetrahedron represents a complex anion that can be considered a radical of orthoniobate. This makes fergusonite a compound chemically resembling scheelite, whose crystal structure is also similar to that of the tetragonal fergusonite. The transition from tetragonal to monoclinic fergusonite took place while the specimen was annealed at 1,000° C for 15 minutes and cooled off to room temperature. The diffraction pattern of monoclinic fergusonite is described by  $2/m\ I\ -/a$  (other orientation of  $2/m\ C\ -/c$ ). This points to space groups  $I\ 2/a$  and  $Ia$  (other orientations of  $C2/c$  and  $Cc$  respectively), but analysis of Patterson projections disclosed that the space group is  $I\ 2$  (other orientation of  $C2$ ). The unit cell parameters are  $a = 5.05$  Å,  $b = 10.89$  Å,  $c = 5.27$  Å,  $\beta = 85^{\circ}30'$ , 4 molecular weights per unit cell. The coordinates xyz

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Structure of Natural Fergusonite and of  
Its Polymorphous Modification

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of 4 basal O-atoms are:  $O_1$ --0.185, 0.08, 0.25;  $O_2$ --0.25, 0.83, 0.315;  $O_3$ --0.185, 0.65, 0.75;  $O_4$ --0.25, 0.90, 0.815. Y, Yb and Nb coordinates are:  $2Nb_1$ --0, 0, 0;  $2Nb_2$ --0, 0.714, 0.5;  $2(Y, Yb)_1$ --0, 0.476, 0;  $2(Y, Yb)_2$ --0, 0.238, 0.5. All 3 atoms occupy identical positions and are enveloped by 8 O-atoms of which 6 form slightly distorted octahedron and 2 others are considerably farther from the octahedron body center. Interatomic distances are compiled in Table 2. Artificially grown  $YTaO_4$  and  $ErNbO_4$  crystals proved to be isomorph with monoclinic fergusonite. The interatomic distances and diffraction intensities differ slightly. V. A. Frank-Kamenetskiy is acknowledged for a critical review of the paper and Ye. I. Nefedov for presenting fergusonite specimens. There are 4 figures; 2 tables; and 7 references, 5 Soviet, 2 U.S. The latter are: H. Lipson, W. Cochran, Determination of Crystal Structures, 1954; J. D. Dana, E. S. Dana et al. System of Mineralogy, 1951.

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Structure of Natural Fergusonite and of  
Its Polymorphous Modification

77105  
CIA-RDP86-00513R000824120005-9  
SOV/70-4-6-6/31

Table 2

Interatomic distances in monoclinic fergusonite.

ATOMS	$r_{i-j}$	ATOMS	$r_{i-j}$	ATOMS	$r_{i-j}$
(Y, Yb) <sub>1</sub>	2,42	(Y, Yb) <sub>2</sub>	2,41	$O_1$	3,20
$O_2(O_{2II})$	2,30	$Nb_1$	1,90	$O_4$	2,86
$O_3(O_{3II})$	2,45	$O_4IV(O_{4V})$	1,93	$O_{1III}$	3,10
$O_4(O_{4I})$	2,20	$Nb_2$	1,97	$O_{3III}$	2,64
(Y, Yb) <sub>3</sub>	2,32	$O_2III(O_{2II})$	1,81	$O_{4V}$	3,00
$O_3I(O_{3III})$	2,34	$O_1$	3,38	$O_{4IV}$	2,04
$O_2III(O_{2I})$	2,20	$O_{1I}$	2,75	$O_{4V}$	3,07
		$O_2II$	2,70	$O_1$	2,70

ASSOCIATION: All-Union Scientific Research Geological Institute  
(Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy  
institut)

SUBMITTED: March 28, 1959  
Card 4/4

34872  
S/081/62/000/003/008/090  
B151/B144

18.1295

AUTHOR: Komkov, A. I.

TITLE: X-ray investigation of rare-earth compounds of the type  
 $(Y, RE) (Nb, Ta)O_4$

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1962, 35 - 36,  
abstract 3B219 (Materialy Vses. n.-i. geol. in-ta., no. 26,  
1959, 78 - 94)

TEXT: The synthesis and X-ray study (powder method,  $\lambda Cu$ ) of nine compounds of the type  $RENbO_4$  ( $RE$  are rare-earth elements) is given. The monoclinic lattice parameters are:  $LaNbO_4$  a 5.196; b 11.488; c 5.564  $\text{\AA}$ ;  $\beta$  85°30';  $\alpha$  (exp.) -;  $\alpha$  (calc.) 5.92;  $CeNbO_4$  5.158; 11.400; 5.523  $\text{\AA}$ ; 85°30'; 6.05; 6.09;  $PrNbO_4$  5.153; 11.324; 5.506  $\text{\AA}$ ; 85°30'; -; 6.17; 85°30'; NdNbO<sub>4</sub> 5.140; 11.267; 5.472  $\text{\AA}$ ; 85°30'; -; 6.34; SmNbO<sub>4</sub> 5.111; 11.180; 5.430  $\text{\AA}$ ; 85°30'; 6.55; 6.60; GdNbO<sub>4</sub> 5.094; 11.070; 5.375  $\text{\AA}$ ; 85°36'; 6.88; 6.90; DyNbO<sub>4</sub> 5.080; 10.964; 5.310  $\text{\AA}$ ; 85°30'; 7.16; 7.18; ErNbO<sub>4</sub> 5.045;

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S/081/62/000/003/008/090  
B151/B144

X-ray investigation of rare-earth...

10.893; 5.267 Å; 85°30'; 7.42; 7.45;  $\text{YbNbO}_4$  5.030; 10.798; 5.237 Å; 85°30'; 7.62; 7.66; for all nine compounds  $Z = 4$ , group I2. It is shown that the synthetic compounds of the type  $\text{Y}(\text{Nb}, \text{Ta})\text{O}_4$  and  $\text{RE}(\text{Nb}, \text{Ta})\text{O}_4$  form one continuous isomorphic series, independently of the dimensions of the  $\text{RE}^{3+}$  ion. As the ionic radii decrease in the La-Yb series there is a gradual decrease in the lattice parameters from  $\text{LaNbO}_4$  to  $\text{YbNbO}_4$ . On increasing the temperature, a transition from monoclinic  $\text{RE}(\text{Nb}, \text{Ta})\text{O}_4$  to the tetragonal modification is observed, and this transition bears a "shift-like" character. In synthetic compounds of the  $\text{YNbO}_4 - \text{YTaO}_4$  series there is a linear dependence of the angle  $\beta$  on the Nb and Ta contents, which can be used for determining the content of these elements in minerals of the Fergusonite series. On substituting part of the Y in the  $\text{Y}(\text{Nb}, \text{Ta})\text{O}_4$  compounds with RE a change in the parameters of the a, b, and c lattices is observed. The introduction of RE atoms from La to Dy into the lattice brings about an increase in the linear parameters, while the introduction of the elements from Er to Lu brings about a drop in these parameters.

Card 2/3

KOMKOV, A. I.

X-rays determination of minerals of the fergusonite group. Zap.  
Vses. min. ob-va 88 no.6:655-660 '59. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut  
(VSEGEI), Leningrad.  
(Fergusonite) (X-rays--Industrial application)

3(8)

AUTHOR:

Komkov, A. I.

SOV/20-126-3-51/69

TITLE:

On Minerals of the Euxenite-polycrase and Priorite-bломstrandine Series (O mineralakh seriy evksenit-polikraza i priorit-bломstrandina)

PERIODICAL:

Doklady Akademii nauk SSSR , 1959, Vol 126, Nr 3,  
pp 641 - 644 (USSR)

ABSTRACT:

The minerals of the series mentioned in the title are yttrium-titanoniobates and titanoniobates of rare earths (TR). Part of the yttrium can be replaced by U, Th, Ca or Fe. In euxenite and priorite, Nb dominates over Ti, in the two other minerals mentioned in the title, the relation is inverse. Some authors consider bломstrandine a synonym of priorite (Refs 3,4). As by a change in the position of priorite crystals an axial relation similar to euxenite can be attained, other scientists (Refs 6,11) want to combine the two series mentioned in the title into one series. In spite of their wide propagation in nature, the minerals mentioned have been little investigated with respect to their structure. This is due to the fact that they can practically be studied only by means of the Debye method.

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On Minerals of the Euxenite-polycrase and Priorite-  
blomstrandine Series

SOV/20-126-3-51/69

After a survey of the investigations carried out up to date (Refs 1,2,5,7-10), the author describes the results of his investigations and ascertains: a) if the minerals of the series mentioned in the title do not suffer a complete decay into an oxide mixture, their premetamictic structure is re-established by heating. Then, they can be clearly recognized by the X-ray method. b) In the case of a complete metamictic decay of the lattices, the minerals of these series cannot be distinguished by X-ray data. An exception is the eschjninite which reconstructs its premetamictic structure above 1000° independent of the degree of decay of its lattice. Table 1 shows Debyograms of artificial euxenite and eschjninite as well as of a blomstrandine sample. Their chemical composition is indicated. These Debyograms can be used for the X-ray diagnosis of the minerals of the two series referred to. There are 1 table, and 11 references, 7 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut  
(All-Union Scientific Geologic Research Institute)

Card 2/3

3 (8)

AUTHOR: Komkov, A. I.

SOV/20-126-4-45/62

TITLE: X-ray Investigation of the Artificial Rare Earth Compounds of the Type  $T\text{RNbO}_4$  (Rentgenovskoye issledovaniye iskusstvennykh redkozemel'nykh soyedineniy tipa  $T\text{RNbO}_4$ )

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 4, pp 853 - 854 (USSR)

ABSTRACT: Among the chemical compounds of type  $\text{ABO}_4$  (where A, B denote the cations and O - oxygen) the compounds mentioned in the title (TR - La, Ce, Pr and other rare earths) have hitherto remained uninvestigated from the structural point of view. In the  $\text{ABO}_4$ -compounds a certain dependence of the type of the structure on the length of the ionic radii A and B (Refs 1-3) may be found. With respect to the size of the B-ion the  $T\text{RNbO}_4$ -compounds are similar to the tungstates and molybdates. The ionic radii of  $\text{Tr}^{3+}$  are in a rather large range of from 1.04 for  $\text{La}^{3+}$  to 0.80 for  $\text{Lu}^{3+}$  (Ref 4). 2 different types of structures were found in tungstates and molybdates (Ref 13) of the

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X-ray Investigation of the Artificial Rare Earth Compounds of the Type  $\text{TRNbO}_4$

SOV/20-126-4-45/62

type A ( $\text{W}, \text{Mo}$ ) $\text{O}_4$  which have ionic radii of the A-ions which are approximated to the mentioned values of the ionic radii of the rare earths: scheelite (in the case of a  $\text{R}_A$  which is approximated to the lengths of the ionic radii of the group of cerium  $\text{La}^{3+} - \text{Sm}^{3+}$ , 1.04 - 0.97) and of wolframite (at a  $\text{R}_A$  which is approximated to the lengths of the ionic radii of the yttrium group  $\text{Gd}^{3+} - \text{Lu}^{3+}$  0.94 - 0.8). The investigation of the crystalline structure of the  $\text{TRNbO}_4$ -compounds was very important, and it was also necessary to clarify whether the rare earths form a continuous isostructural series  $\text{TRNbO}_4$ , or whether the subsequent substitution of the rare earths by other rare earths with smaller ionic radii - in analogy with the tungstates and molybdates - leads to a morphotropic change of the crystalline structure. Moreover, it was important to determine the possible structural relations between these compounds and the groups of minerals of fergusonite (Y, TR) ( $\text{Nb}, \text{Ta}$ ) $\text{O}_4$ . For this purpose  $\text{TRNbO}_4$ -compounds were synthesized and

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X-ray Investigation of the Artificial Rare Earth Compounds of the Type  $\text{TRNbO}_4$  SOV/20-126-4-45/62

investigated spectroscopically with the following cations of the rare earths  $\text{TR}^{3+}$ : La, Ce, Pr, Nd, Sm, Gd, Dy, Er, Yb (Table 2). Table 1 shows the chemical characteristics of the oxides used for the synthesis. The X-ray investigation of the compounds mentioned showed that - independent of the size of the  $\text{TR}^{3+}$  ion - they form a continuous isostructural series. According to the decrease of the inionic radii from  $\text{La}^{3+}$  to  $\text{Yb}^{3+}$  only a regular distribution of the unit cell from  $\text{LaNbO}_4$  to  $\text{YbNbO}_4$  was observed. The parameters given in table 2 were computed from the Debye grams which the author had obtained by  $\text{Cu K}\alpha$  radiation in a chamber. The investigations showed that the compounds of the type  $\text{TRNbO}_4$  of the monoclinal modification ( $\text{Y, TR})\text{NbO}_4$  which are obtained by heating and subsequent cooling of the natural fergusonite are isostructural (Refs 5,6). They belong to the spatial group J2. The unit cell of these compounds contains 4 "formula'units" (formul'nyye yedinitsty)

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X-ray Investigation of the Artificial Rare Earth Compounds of the Type  $T\text{RNbO}_4$  SOV/20-126-4-45/62

$\text{TRNbO}_4$ ). They have a distorted crystalline structure of scheelite. Investigations carried out with a high-temperature ionization apparatus (Ref 7) showed that in heating the monoclinic cell of the  $\text{TRNbO}_4$ -compounds transforms into a tetragonal one.

The transformation is reversible and has a shifting "character" (Ref 8). Analogies - see reference 9. There are 2 tables and 9 references, 3 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut  
(All-Union Scientific Geologic Research Institute)

PRESENTED: March 16, 1959, by A. A. Polkanov, Academician

SUBMITTED: March 9, 1959

Card 4/4

KCMKOV, A.I.

Parameters of elementary cells and space group of fersmite and  
its synthetic analogue. Zap. Vses. min. ob-va 89 no.4:455-458  
'60. (MIRA 13:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy  
institut (VSEGEI), Leningrad.  
(Fersmite)

KOMKOV, A.I., BELOPOL'SKIY, M.P., CHERNORUK, S.G., KOLPAKOV, D.A.

Hydrothermal synthesis and X-ray study of  $TmNbTiO_6$  type compounds.  
Dokl. AN SSSR 147 no. 3:687-688 N '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.  
Predstavлено академиком N.V. Belovym.  
(Rare earth titanium oxide) (X-ray crystallography)  
(Niobium compounds)

KONKOV, A.I.

Buxenite and priorite, polymorphic varieties of  $\text{NbTiO}_6$ . Dokl.  
AN SSSR 148 no.3:679-680 Ja '63. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.  
Predstavлено академиком А.А. Полкановым.  
(Buxenite) (Priorite)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824120005-9

ANIPOVICH, Yu.N.; KOMKOV, A.I.; NEFEROV, Ye.I.

Stephanite and a new mineral "zhemchuzhikovite". Trudy VNIIGET  
96:134-135 '63.  
(MIRA 17,9)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824120005-9"

S/020/63/148/005/025/029  
B144/B186

AUTHOR: Komkov, A. I.

TITLE: Polymorphism of  $\text{RENbTiO}_6$ -type compounds

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 5, 1963, 1182-1183

TEXT: In continuation of previous studies (DAN, 147, no. 3 (1962)),  $\text{RENbTiO}_6$  compounds (RE = rare earths), obtained at 250 - 300°C by hydro-thermal synthesis were calcined in an electric furnace in air at 300 - 1300°C and then analyzed roentgenographically. The compounds containing RE with atomic numbers from 64 to 71 had not only the known structure of the aeschynite-priorite type, but also a polymorphic modification belonging to the steric group  $D_{2h}^{14}$  - Pcan with 4  $\text{RENbTiO}_6$  units, and a structure like euxenite-polyrase minerals. This second modification formed at 750 - 950°C from the first, which developed at 250 - 300°C; thus, the two modifications were denominated high-temperature  $\alpha$ -modification and low-temperature  $\beta$ -modification. For the  $\alpha$ -modification, the parameters of the unit cells were calculated from Debye patterns taken with Fe emission. For the

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Polymorphism of...

S/020/63/148/005/025/029  
B144/B186

$\text{RENbTiO}_6$  compounds with RE atomic numbers from 57 to 63 no high-temperature modification could be detected. The structure of their low-temperature modification resembled that of aeschynite-priorite minerals.  $\text{EuNbTiO}_6$  began to decompose at  $\sim 1300^\circ\text{C}$  into  $\text{EuNbO}_4$  with the structure of monoclinic fergusonite, and into rutile-type  $\text{TiO}_2$ . At the same temperature, no structural changes were observed in the Sm, Nd, Pr, Ce, and La compounds. There is 1 table.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut  
(All-Union Scientific Research Institute of Geology)

PRESENTED: August 15, 1962, by N. V. Belov, Academician

SUBMITTED: August 1, 1962

Card 2/2

KOMKOV, A.I.; BELOPOL'SKIY, M.P.; CHERNORUK, S.G.; KOLPAKOV, D.A.

Artificial priorite. Zap. Vses.min.ob-va 93 no. 2;205-207  
'64. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy  
institut (VSEGEI).

KHRUZIN, N.A.; KOMKOV, A.I.; MOGILEVSKIY, Ye.M.

Advanced work practices of the collectives of synthetic fiber factories. Khim volok. no.1:1-26 '65. (MIRA 18:2)

1. Direktor Kiyevskogo kombinata iskusstvennogo volokna (for Khruzin). 2. Direktor Kalininskogo kombinata iskusstvennogo volokna (for Komkov). 3. Nachal'nik otdela gidrattsellyuloznykh volokon Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Mogilevskiy).

KOMKOV, A.I.

Crystalline structure and chemical constitution of samarskite.  
Dokl. AN SSSR 160 no.3:693-696 Ja '65.

(MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.  
Submitted September 14, 1964.

KOMKOV, A.I.; BELOPOL'SKIY, M.P.

Products of solid-phase reactions in the  $U_3O_8$ - $Nb_2O_5$  system.  
Dokl. AN SSSR 160 no.5:1172-1174 F '65.

(MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.  
Submitted September 14, 1964.

ALYAVDIN, V.F.; BONSHTEDT-KUPLETSKAYA, E.M.; GODLEVSKIY, M.N., doktor geol.-mineral.nauk; KOMKOV, A.I.; KUKHARENKO A.A.. prof.; SAL'DAU, E.P.; SMOL'YANINOVA, N.N.; BORNEMAN-STARYNKEVICH, I.D.; TATARSKIY, V.B., prof.; FRANK-KAMENETSKIY, V.A.

From the Commission on New Minerals of the Mineralogical Society of the U.S.S.R. Zap.Vses.min.ob-va 94 no.5:555-565 '65. (MIRA 18:11)

1. Komissiya po novym mineralam Vsesoyuznogo mineralogicheskogo obshchestva. 2. Predsedatel' Komissii po novym mineralam Vsesoyuznogo mineralogicheskogo obshchestva (for Frank-Kamenetskiy). 3. Zamestitel' predsedatelya Komissii po novym mineralam Vsesoyuznogo mineralogicheskogo obshchestva (for Bonshtedt-Kupletskaya). 4. Sekretar' Komissii po novym mineralam Vsesoyuznogo mineralogicheskogo obshchestva (for Sal'dau).

KOMKOV, A. M.

21372      KOMKOV, A. M. Uspeshk sovetskoy karyografii Za 30 Leg. voprosy geografii,  
SB. 11, 1949, S. 3-38, S. Kart.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949.

KOMKOV, A. M.

Cartography

Substance and methods of generalization in cartography., Vop. geog. 27, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 195<sup>6</sup> Unclassified.

CHERDANTSEV, G.N.; BASHLAVINA, G.N.; MARUSOV, A.Ya.; MERKULOV, V.A.; FILIPPOV, Yu.V.; LARIN, D.A.; DENZIN, P.V.; KOMKOV, A.M.; KARAVAYEVA, Z.F.; MIROSHNICHENKO, A.F.; KOLDAYEV, P.K.; SIVORTSOV, F.A.; PAVLOV, V.V.

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Korolev, Luk'yanyov, Romanov, Ivanov, Igubkov, Knyah, Vasmut)  
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Kam L., D.A.

sov/6-59-7-24/25

3(2)  
AUTHOR: None Given

TITLE: Chronicle (Khronika)

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 7, p 80 (USSR)

ABSTRACT: A conference of the members of the Moskovskiy filial Geograficheskogo obshchestva SSSR (Moscow Branch of the Geographical Society of the USSR) took place in May. At the first meeting on May 11, D. I. Smirnov delivered a report "On the Application of a Continuous Shade in the Edition and Issue of Topographic Maps". At the second meeting on May 15, A. M. Komkov delivered a report on "Geographic Maps, and the Work of Their Producers, in Popular and Belletristic Publications". The third meeting on May 26 was dedicated to a discussion of the content of the atlas of the Belorusskaya SSR published in 1958. Words of introduction were spoken by Professor K. A. Salishchev. Representatives of the MGU, TsNIIGAiK and NRKCh took part in the discussion.

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izd-va; SUNGUROV, V.S., tekhn. red.

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GINZBURG, Georgiy Aleksandrovich; KOMKOV, A.M., retsenzent;  
EDEL'SHTEYN, A.V., red.; BRAZHNIKOV, V.I., red.izd-va;  
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KOMLEV, A.M.

Study of minimum flow in the Alpine zone of the Altai. Izv.  
Alt. otd. Geog. ob-va SSSR no.5:72-73 '65. (MIRA 18:12)

1. Sibirskiy nauchno-issledovatel'skiy institut energetiki.

KOMLEV, A.M.; ORLOVA, G.A.

Minimum flow of rivers of the Gornyy Altai and its variation  
over a period of many years. Izv. Alt. otd. Geog. ob-va SSSR,  
no.5:74-75 '65. (MIRA 18:12)

1. Sibirskiy nauchno-issledovatel'skiy institut energetiki.

J. 08999-67 EWT(m)/EWP(w)/EWP(v)/EWP(j)/EWP(k) IJP(o) FDN/WH/EM/RM  
ACC NR: AP6012124 SOURCE CODE: UR/0413/66/000/007/0043/0044

AUTHORS: Loont'yov, N. N.; Malakhovskiy, A. E.; Zakharov, M. A.; Pershutov, G. G.;  
Potrov, S. P.; Yermakov, V. V.; Komkov, A. N.

54

ORG: none

TITLE: A blower blade. Class 27, No. 180289

SOURCE: Izobreteniya, promyshlennyye obraztay, tovarnyye znaki, no. 7, 1966, 43-44

TOPIC TAGS: blade profile, rotor blade, industrial blower, ventilation fan

ABSTRACT: This Author Certificate presents a blower blade fastened by a shaft and a coupling section to the sleeve of the driving wheel. The design increases the operating reliability under alternating loads. The shaft, at the point of fastening to the blade, has a longitudinal cross section made up of two frustums of a cone, combined along the smaller bases. These frustums are coated together with the entire blade by an overall layer of glass-reinforced plastic.<sup>2/0</sup> This layer is tightly drawn together by means of a split tapered metal bushing and a disengaging coupling section (see Fig. 1). These units are coated with a subsequent

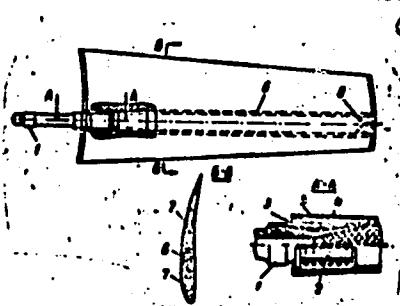
UDC: 621.631.4-253.5

Card 1/2

L 08999-67

ACC NR: AP6012124

Fig. 1. 1 - shaft; 2 - disengaging coupling section; 3 - glass-reinforced plastic layer; 4 - tapered split bushing; 5 - subsequent layer of glass-reinforced plastic; 6 - power spar; 7 - auxiliary spars; 8 - disks



layer of plastic deposited on the framework to produce the operating profile of the blade. The blade framework includes a power spar and auxiliary spars which form (in the transverse cross section) the operating profile. The blade carries on its end part a set of balancing disks. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 12Feb65

Card 2/2 not